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☐ **1.** Method of determining a site of inflammation utilizing elam-1 ligands
Brandley, Brian K. / Tiemeyer, Michael / Swiedler, Stuart J. / Moreland, Margaret / Schweingruber, Hans / Glycomed Incorporated, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Sep 1992
...endothelial leukocyte adhesion molecule-1 (**ELAM**-1) are disclosed. The ligand compounds...qualitative) and amount of (quantitative) **ELAM**-1 and thereby determine the presence, location...formula I regarding its ability to bind to an **ELAM**-1 receptor to the same degree as a compound...
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☐ **2.** Method of determining a cite of inflammation utilizing elam-1 ligands site
Brandley, Brian K. / Tiemeyer, Michael / Swiedler, Stuart J. / Moreland, Margaret / Schweingruber, Hans / Glycomed Incorporated, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, May 1993
...N-acetyllactosamines which bind to endothelial leukocyte adhesion molecule-1 (**ELAM**-1) are disclosed. The ligand compounds can be formulated into...for the presence of (qualitative) and amount of (quantitative) **ELAM**-1 and thereby determine the presence, location and degree of...
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☐ **3.** Method of determining a site of inflammation utilizing ELAM-1 ligands
Brandley, Brian K. / Tiemeyer, Michael / Swiedler, Stuart J. / Moreland, Margaret / Schweingruber, Hans / Glycomed Incorporated, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, May 1993
...N-acetyllactosamines which bind to endothelial leukocyte adhesion molecule-1 (**ELAM**-1) are disclosed. The ligand compounds can be formulated into...for the presence of (qualitative) and amount of (quantitative) **ELAM**-1 and thereby determine the presence, location and degree of...
Full text available at patent office. For more in-depth searching go to LexisNexis
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☐ **4.** NEW CARBOHYDRATE-BASED ANTI-INFLAMMATORY AGENTS
BRANDLEY, Brian, K. / TIEMEYER, Michael / SWIEDLER, Stuart, J. / MORELAND, Margaret / SCHWEINGRUBER, Hans / GLYCOMED, INCORPORATED, *PATENT COOPERATION TREATY APPLICATION*, Feb 1992
...leukocyte adhesion molecule-1 (hereinafter **ELAM**-1) and to compositions containing such...example, in (a) determining the presence of **ELAM**-1, (b) assaying for areas of inflammation...the nature of the leukocyte receptor for **ELAM**-1 (see Bevilacqya et al. Proc Natl. Acad...
Full text available at patent office. For more in-depth searching go to LexisNexis
view all 4 results from Patent Offices
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☐ **5.** Carbohydrate ligands for endothelial-leukocyte adhesion molecule 1.
M Tiemeyer / S J Swiedler / M Ishihara / M Moreland / H Schweingruber / P Hirtzer / B K Brandley, *Proc Natl Acad Sci U S A*, Feb 1991
...endothelial-leukocyte adhesion molecule 1 (**ELAM**-1). Radiolabeled COS cells transfected with a plasmid containing the cDNA for **ELAM**-1 were used as probes to screen glycolipids...glycolipids indicate that the ligands for **ELAM**-1 are terminally sialylated lactosylceramides...

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☐ **6.** The three members of the selectin receptor family recognize a common carbohydrate epitope, the sialyl Lewis(x) oligosaccharide.
C Foxall / S R Watson / D Dowbenko / C Fennie / L A Lasky / M Kiso / A Hasegawa / (...) / B K Brandley, *J Cell Biol*, May 1992
...known selectins, L-selectin (leukocyte adhesion molecule-1 [LECAM-1]), E-selectin (endothelial-leukocyte adhesion molecule-1 [**ELAM**-1]), and P-selectin (GMP-140) share structural features that include a calcium-dependent lectin domain. The sialyl Lewis(x) carbohydrate...

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Basic Search

affiliation:glycomed AND (sial* or elam or select*) Search

☑ Journal sources ☑ Preferred Web sources ☑ Other Web sources ☐ Exact phrase

Searched for:: :All of the words:**affiliation:glycomed** AND (**sial*** OR **elam** OR **select***)

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☐ **1.** Sialyl Lewis X mimics derived from a pharmacophore search are selectin inhibitors with anti-inflammatory activity.
B N Rao / M B Anderson / J H Musser / J H Gilbert / M E Schaefer / C Foxall / B K Brandley, *J Biol Chem*, Aug 1994
The **selectins**, a family of adhesion receptors...extravasation, recognize **sialyl** Lewis X (sLe(x) NeuAc alpha...were tested as inhibitors of **selectin** binding. Glycyrrhizin, a...identified and found to block **selectin** binding to sLe(x) in vitro...

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☐ **2.** Carbohydrate ligands for endothelial-leukocyte adhesion molecule 1.
M Tiemeyer / S J Swiedler / M Ishihara / M Moreland / H Schweingruber / P Hirtzer / B K Brandley, *Proc Natl Acad Sci U S A*, Feb 1991
...adhesion molecule 1 (**ELAM**-1). Radiolabeled COS...containing the cDNA for **ELAM**-1 were used as probes...adhered to a subset of **sialylated** glycolipids resolved...that the ligands for **ELAM**-1 are terminally **sialylated** lactosylceramides with...

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☐ **3.** Structural requirements for the carbohydrate ligand of E-selectin.
D Tyrrell / P James / N Rao / C Foxall / S Abbas / F Dasgupta / M Nashed / (...) / D Asa, *Proc Natl Acad Sci U S A*, Nov 1991
...process, including the **selectins**, a family of carbohydrate-binding...of these proteins, E-**selectin** (LECAM-2, **ELAM**-1) has been described...structure bearing a terminal **sialic** acid residue and at...carbohydrate recognition by E-**selectin**. Using both direct binding...

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affiliation:glycome
OR elam OR select

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☐ **4.** The three members of the selectin receptor family recognize a common carbohydrate epitope, the sialyl Lewis(x) oligosaccharide.
C Foxall / S R Watson / D Dowbenko / C Fennie / L A Lasky / M Kiso / A Hasegawa / (...) / B K Brandley, *J Cell Biol*, May 1992
...three known **selectins**, L-**selectin** (leukocyte adhesion molecule-1 [LECAM-1]), E-**selectin** (endothelial-leukocyte adhesion molecule-1 [**ELAM**-1]), and P-**selectin** (GMP-140) share structural...calcium-dependent lectin domain. The **sialyl** Lewis(x) carbohydrate epitope...

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☐ **5.** Structure-function studies on selectin carbohydrate ligands. Modifications to fucose, sialic acid and sulphate as a sialic...
B K Brandley / M Kiso / S Abbas / P Nikrad / O Srivasatava / C Foxall / Y Oda / A Hasegawa, *Glycobiology*, Dec 1993
...with specific modifications on the **sialyl**-Lewisx epitope. E- and L-**Selectin** require hydroxyl groups at the...indicate that, while all three **selectins** can recognize **sialyl**-Lewisx, E-, L- and P-**Selectin** each display distinct carbohydrate...

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☐ **6.** Carbohydrate ligands of the LEC cell adhesion molecules.
B K Brandley / S J Swiedler / P W Robbins, *Cell*, Nov 1990
Animals; Carbohydrate Conformation; Carbohydrate Sequence; Carbohydrates; Cell Adhesion Molecules; E-Selectin; Glycoside Hydrolases; Humans; Ligands; Molecular Sequence Data; Oligosaccharides; P-Selectin; Platelet Membrane Glycoproteins; Receptors, Lymphocyte Homing

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☐ **7.** Cell surface ligands for rotavirus: mouse intestinal glycolipids and synthetic carbohydrate analogs.
C A Srnka / M Tiemeyer / J H Gilbert / M Moreland / H Schweingruber / B W de Lappe / P G James / (...) / R H Yolken, *Virology*, Oct 1992
...with ceramide glycanase suggested that bands 80 and 81 have lactosyl ceramide cores and an unidentified acidic moiety(s). No **sialic**-acid-containing glycolipids tested were active in viral binding. Band 81, which may have a ganglio core, bound rotavirus with...

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☐ **8.** Selection of COS cell mutants defective in the biosynthesis of heparan sulfate proteoglycan.

M Ishihara / M C Kiefer / P J Barr / Y Guo / S J Swiedler, *Anal Biochem*, Nov 1992
A simple procedure using human basic fibroblast growth factor (FGF) was utilized for the **selection** of COS cell mutants with defects in the biosynthesis or expression of heparan sulfate proteoglycan (HSPG). Our approach was based...

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☐ **9.** Selective impairment of the synthesis of basic fibroblast growth factor binding domains of heparan sulphate in a COS cell...
M Ishihara / Y Guo / S J Swiedler, *Glycobiology*, Feb 1993
...400-407]. We now provide structural evidence that CM-15 is **selectively** impaired in the synthesis of highly sulphated regions or...decasaccharide or larger fraction. These results suggest that a **selective** reduction in both N- and O-sulphation in the larger blocks...

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☐ **10.** Reverse glycobiology: the LEC-CAMs and their carbohydrate ligands.
S J Swiedler, *Glycobiology*, Jun 1991
Animals; Carbohydrates; Humans; Ligands; P-Selectin; Platelet Membrane Glycoproteins

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☐ **11.** Preparation of affinity-fractionated, heparin-derived oligosaccharides and their effects on selected biological activities...
M Ishihara / D J Tyrrell / G B Stauber / S Brown / L S Cousens / R J Stack, *J Biol Chem*, Mar 1993
Homogeneously sized, heparin-derived oligosaccharides were prepared from heparin following partial depolymerization with nitrous acid, reduction with sodium borohydride, and fractionation by gel permeation chromatography. The resulting pools of di-,...

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       (c) format only 2006 Dialog

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          117629  S2
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      Display 3/4,K/1
FN- DIALOG(R)File   5:Biosis Previews(R)|
CZ- (c) 2006 The Thomson Corporation. All rts. reserv.|
AZ- 0014399321|
AA- 200300358040|
TI- Reduced Expression of Tissue Factor by IL-1alpha-Activated Neonatal
    Compared to Adult Microvascular Endothelial Cells.|
AU- Buzby Jeffrey S(Reprint); Nugent Diane J(Reprint)|
CS- Hematology Research Laboratory, Children's Hospital of Orange County
    Research Institute, Orange, CA, USA USA|
JN- Blood|
VO- 100|
IS- 11|
PG- Abstract No. 3769|
DA- November 16, 2002|
PY- 2002|
ME- print|
CT- 44th Annual Meeting of the American Society of Hematology|
LO- Philadelphia, PA, USA|
DA- December 06-10, 2002; _20021206|
SP- American Society of Hematology|
SN- 0006-4971|
DT- Meeting; Meeting Poster;  Meeting Abstract|
RT- Abstract|
```

LA- English|
AB- Newborn infants are particularly prone to hemorrhagic or thromboembolic complications, such as disseminated intravascular coagulation (DIC), when subjected to the stress of infection or traumatic injury. As in the adult, vascular endothelial cells play a central role in balancing the opposing forces of clot formation and breakdown. In addition, endothelial cells are intricately involved in the process of inflammation because of their ability to express and respond to inflammatory cytokines. Our previous studies have demonstrated that cytokine and cytoadhesion molecule regulation is altered in neonatal vascular endothelial cells (Buzby et al., Exp. Hematol., 22:122). The unique responses of neonatal endothelial cells may represent a critical transition between the fetal and adult developmental stages of gene expression. To determine if altered regulation of coagulation factors could contribute to neonatal inflammatory coagulopathies, we have compared expression of tissue factor (TF), tissue factor pathway inhibitor, thrombospondin, thrombomodulin, and von Willebrand factor between neonatal and adult human microvascular endothelial cells (HMVEC) in response to the key inflammatory cytokine, interleukin-1alpha (IL-1alpha). Of these factors, only TF (thromboplastin, Factor III), the primary initiator of coagulation and receptor for Factor VIIa, was expressed differentially. RNA blot hybridization with a 32P-labeled, 960-bp HindIII fragment from the human TF cDNA clone, pHTF12 (courtesy of Dr. J. Evan Sadler, Washington Univ.-St. Louis), demonstrated that neonatal HMVEC accumulated just 25+-4% of the adult TF mRNA level (p=0.0004) after activation with 300pg/mL (apprx50U/mL) IL-1alpha for 2 hrs. Likewise, TF protein was only expressed at 61+-7% of the adult level in neonatal HMVEC extracts (p=0.03) after activation with IL-1alpha for 8 hrs (Fig. 1), as detected by ELISA (American Diagnostica, Inc.). It may also be noteworthy that GM-CSF mRNA was only expressed at 39+-10% of the adult level in neonatal HMVEC (p=0.0033) after the same activation with IL-1alpha for 2 hrs, and that expression of mRNA for the inflammatory cytoadhesion molecules, ICAM-1 and ELAM-1, was previously reported to be similarly reduced in IL-1-activated neonatal vascular endothelial cells (Buzby et al., Exp. Hematol., 22:122). Expression of these inflammatory mediators in neonatal vs. adult HMVEC will be compared with that of TF to characterize the mechanism(s) regulating their reduced induction in IL-1alpha-activated neonatal HMVEC. Differences in IL-1alpha signal transduction between neonatal and adult HMVEC revealed by macroarray analysis (SuperArray, Inc.) will also be presented. These studies are vital for defining the contributions of TF, its **ligand** , Factor VIIa, and IL-1alpha in neonatal inflammatory coagulopathies, such as DIC.|
RN- 14708-95-3: factor III; 65312-43-8: factor VIIa; 9002-05-5Q: thromboplastin; 9035-58-9Q: thromboplastin; 72162-96-0Q: thromboplastin; 194554-71-7: tissue factor pathway inhibitor|
DE- <MAJOR CONCEPT> Cardiovascular System--Transport and Circulation|
DE- <BIOSYSTEMATIC> Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia|
DE- <ORGANISMS> human (Hominidae)|
DE- <PARTS,ETC> microvascular endothelial cell--circulatory system; vascular endothelial cell--circulatory system|
DE- <COMMON TAXONOMIC TERMS> Animals; Chordates; Humans; Mammals; Primates; Vertebrates|
DE- <CHEMICALS> **ELAM-1** ; GM-CSF mRNA {granulocyte-macrophage colony stimulating factor messenger RNA}--expression; ICAM-1 {intercellular adhesion molecule-1}; factor III; factor VIIa; interleukin-1-alpha; thromboplastin; tissue factor--expression; tissue factor mRNA {tissue factor messenger RNA}; tissue factor pathway inhibitor|
CC- 00520 General biology - Symposia, transactions and proceedings

02506 Cytology - Animal
02508 Cytology - Human
10064 Biochemistry studies - Proteins, peptides and amino acids
14504 Cardiovascular system - Physiology and biochemistry
17002 Endocrine - General|
BC- 86215 Hominidae|

...ABSTRACT: will also be presented. These studies are vital for defining the contributions of TF, its **ligand** , Factor VIIa, and IL-1alpha in neonatal inflammatory coagulopathies, such as DIC.
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: **ELAM-1** ...

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Set	Items	Description
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S2	117629	LIGAND
S3	4	S1 AND S2

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Display 3/4,K/2
FN- DIALOG(R)File 5:Biosis Previews(R)|
CZ- (c) 2006 The Thomson Corporation. All rts. reserv.|
AZ- 0010932037|
AA- 199799566097|
TI- Modulation of adhesion molecules in wound healing|
AU- Benci M(Reprint); Vannucchi P; Lotti T|
CS- Dep. Dermatol., Univ. Florence, Florence, Italy Italy|
JN- International Journal of Immunopathology and Pharmacology|
VO- 10|
IS- 1|
PG- 57-58|
DA- 1997|
PY- 1997|
SN- 0394-6320|
DT- Article|
RT- Abstract|
LA- English|
AB- The pathogenesis of leg ulcers secondary to chronic venous hypertension (CVH) is apparently due to fibrin cuffs formation around microvessels in periulcerous skin. This event is regulated by the release of cytokines (i.e. IL-1, TNF-alpha) from leucocytes trapped into the vessels after **ligand** interaction with specific cell adhesion molecules (CAMs). Activation of coagulation is able to induce both up-regulation of expression of CAMs and fibrin formation. Our purpose was to determine if the use of a fibrinolytic therapy (which is a well established treatment of CVH leg ulcers) was able to decrease the expression of the CAMs. Biopsy specimen of periulcerous skin were stained immunohistochemically with monoclonal antibodies against ICAM-1, ELMA-1, and LFA-1, before and after retrograde intravenous pressure infusion (RIPI) with 100,000 IU of Urokinase once a week for three weeks. Specimens of leg ulcers after treatments showed a decrease of staining of all CAMs studied. Fibrin degradation with RIPI technique was able to down-regulate the expression of adhesion molecules in and around endothelial cells in proximity of CVH-related leg ulcers.|
DE- <MAJOR CONCEPT> Cardiovascular Medicine--Human Medicine, Medical Sciences; Dermatology--Human Medicine, Medical Sciences; Immune System --Chemical Coordination and Homeostasis; Physiology|
DE- <BIOSYSTEMATIC> Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia|

DE- <ORGANISMS> human (Hominidae)|
DE- <COMMON TAXONOMIC TERMS> Animals; Chordates; Humans; Mammals; Primates; Vertebrates|
DE- <MISC.> CARDIOVASCULAR MEDICINE; CHRONIC VENOUS HYPERTENSION; CLINICAL IMMUNOLOGY; DERMATOLOGY; **ELAM-1** ; ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE; ICAM-1; INTEGUMENTARY SYSTEM DISEASE; INTERCELLULAR ADHESION MOLECULE-1; LEG ULCERS; LFA-1; LYMPHOCYTE FUNCTION ASSOCIATED ANTIGEN-1 ; VASCULAR DISEASE; WOUND HEALING|
CC- 10064 Biochemistry studies - Proteins, peptides and amino acids
11107 Anatomy and Histology - Regeneration and transplantation
14508 Cardiovascular system - Blood vessel pathology
18506 Integumentary system - Pathology
34502 Immunology - General and methods|
BC- 86215 Hominidae|

...ABSTRACT: of cytokines (i.e. IL-1, TNF-alpha) from leucocytes trapped into the vessels after **ligand** interaction with specific cell adhesion molecules (CAMs). Activation of coagulation is able to induce both...

- end of display -

? d s3/4,k/3-4

Display 3/4,K/3

FN- DIALOG(R)File 5:Biosis Previews(R)|

AZ- 0010628076|
AA- 199699262136|
TI- Macrophages and vascular adhesion molecules in oral Kaposi's sarcoma|
AU- Macphail Laurie A(Reprint); Dekker Nusi P; Regezi Joseph A|
CS- Univ. California, San Francisco Sch. Dentistry, Dep. Stomatol., 513 Parnassus S612, Box 0422, San Francisco, CA 94143, USA USA|
JN- Journal of Cutaneous Pathology|
VO- 23|
IS- 5|
PG- 464-472|
DA- 1996|
PY- 1996|
SN- 0303-6987|
DT- Article|
RT- Abstract|
LA- English|
AB- Kaposi's sarcoma (KS) is a heterogeneous tumor where spindle cells are predominant and macrophages and factor XIIIa positive dendrocytes are abundant. The origin of the macrophages and dendrocytes is unclear, although their numbers suggest a critical role in KS pathogenesis. To determine if KS macrophages are recruited from the blood stream or proliferate on-site, we examined biopsy specimens 1) for expression and distribution of vascular adhesion molecules (PECAM-1, ELAM-1, ICAM-1, VCAM-1, P-selectin, L-selectin) and the macrophage-associated adhesion-molecule **ligand** , VLA-4; 2) for dual expression of proliferation (Ki-67) and lineage-associated markers (KP-1, CD34, factor XIIIa, LCA); and 3) for dual expression of macrophage (KP-1) and endothelial cell (CD34) associated markers. Avidin-biotin peroxidase techniques were used. Resident vessels were found to strongly express PECAM-1, ELAM-1, ICAM-1, P-selectin, and moderately express VCAM-1 and VLA-4. Tumor spindle cells showed less intense expression of ELAM-1, ICAM-1 and P-selectin. The most frequent double-stain combination was Ki67+CD34+. In contrast, the combinations of Ki-67+KP-1+, Ki67+XIIIa+ and Ki-67+LCA+ were rarely seen. The enhanced expression of adhesion molecules on resident vessels and the lack of evidence of macrophage proliferation suggest that the abundant macrophages in KS are recruited from the blood stream.|

DE- <MAJOR CONCEPT> Biochemistry and Molecular Biophysics; Blood and Lymphatics--Transport and Circulation; Cell Biology; Dental Medicine--Human Medicine, Medical Sciences; Membranes--Cell Biology; Oncology--Human Medicine, Medical Sciences|
DE- <BIOSYSTEMATIC> Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia|
DE- <ORGANISMS> human (Hominidae)|
DE- <COMMON TAXONOMIC TERMS> Animals; Chordates; Humans; Mammals; Primates; Vertebrates|
DE- <CHEMICALS> FACTOR XIIIA|
DE- <MISC.> BLOOD AND LYMPHATICS; BLOOD STREAM; CD34; CELL BIOLOGY; CELL PROLIFERATION; DENTAL AND ORAL DISEASE; DISTRIBUTION; **ELAM-1** ; ENDOTHELIAL CELL ASSOCIATED MARKER; ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE-1; EXPRESSION; FACTOR XIIIA; ICAM-1; INTRACELLULAR ADHESION MOLECULE-1; KI-67; KI-67-POSITIVE-CD34-POSITIVE; KP-1; L-SELECTIN; LCA; LINEAGE-ASSOCIATED MARKER; MACROPHAGE-ASSOCIATED ADHESION-MOLECULE **LIGAND** ; MACROPHAGES; NEOPLASTIC DISEASE; ORAL KAPOSI'S SARCOMA; P-SELECTIN; PATIENT; PECAM-1; PLATELET-ENDOTHELIAL CELL ADHESION MOLECULE-1; PROLIFERATION MARKER; RESIDENT VESSELS; TUMOR BIOLOGY; TUMOR SPINDLE CELLS; VASCULAR CELL ADHESION MOLECULE-1; VCAM-1; VLA-4|
CC- 02508 Cytology - Human
10064 Biochemistry studies - Proteins, peptides and amino acids
10068 Biochemistry studies - Carbohydrates
10508 Biophysics - Membrane phenomena
15004 Blood - Blood cell studies
15008 Blood - Lymphatic tissue and reticuloendothelial system
19006 Dental - Pathology
24004 Neoplasms - Pathology, clinical aspects and systemic effects
24006 Neoplasms - Biochemistry|
BC- 86215 Hominidae|

...ABSTRACT: 1, ICAM-1, VCAM-1, P-selectin, L-selectin) and the macrophage-associated adhesion-molecule **ligand** , VLA-4; 2) for dual expression of proliferation (Ki-67) and lineage-associated markers (KP...

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DESCRIPTORS:
MISCELLANEOUS TERMS: ... **ELAM-1** ...

...MACROPHAGE-ASSOCIATED ADHESION-MOLECULE **LIGAND** ;

- end of record -

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Display 3/4,K/4

FN- DIALOG(R)File 5:Biosis Previews(R)|
CZ- (c) 2006 The Thomson Corporation. All rts. reserv.|
AZ- 0008826086|
AA- 199395128352|
TI- Modelling the carbohydrate recognition domain of human E-selectin|
AU- Mills Alan|
CS- Lab. Mol. Biol., Crystallography Dep., Birkbeck College, Univ. London, Malet Street, London WC1E 7HX, UK UK|
JN- FEBS (Federation of European Biochemical Societies) Letters|
VO- 319|
IS- 1-2|
PG- 5-11|
PY- 1993|
SN- 0014-5793|

DT- Article|

RT- Abstract|
LA- English|
AB- The three-dimensional structure of the carbohydrate recognition domain of the human E-selectin endothelial-leucocyte adhesion molecule (ELAM-1) was modelled on the basis of the recently determined X-ray crystallographic structure of the homologous domain found in the rat mannose-binding protein. The EGF-like module, which is contiguous to the E-selectin lectin domain, and which is also involved in binding the tetrasaccharide **ligand** , was modelled on the recently determined NMR structure of the EGF-like module of human factor IX. The rule-based homology modelling procedures developed at Birkbeck and encoded in the program COMPOSER were used. The model of the two domains combined is discussed in terms of cation and **ligand** binding.|
DE- <MAJOR CONCEPT> Biochemistry and Molecular Biophysics; Cardiovascular System--Transport and Circulation|
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DE- <MISC.> **ELAM-1** ; ENDOTHELIAL-LEUKOCYTE ADHESION MOLECULE; LECTIN|
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10064 Biochemistry studies - Proteins, peptides and amino acids
10068 Biochemistry studies - Carbohydrates
10506 Biophysics - Molecular properties and macromolecules
13004 Metabolism - Carbohydrates
14504 Cardiovascular system - Physiology and biochemistry
15002 Blood - Blood and lymph studies
15004 Blood - Blood cell studies|
BC- 86215 Hominidae|

...ABSTRACT: to the E-selectin lectin domain, and which is also involved in binding the tetrasaccharide **ligand** , was modelled on the recently determined NMR structure of the EGF-like module of human...

...used. The model of the two domains combined is discussed in terms of cation and **ligand** binding.
DESCRIPTORS:
MISCELLANEOUS TERMS: **ELAM-1** ...

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S2     117629   LIGAND
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         9072796  PY<1994
      S8      53  S7 AND PY<1994
? rd
      S9      53  RD  (unique items)
? s Fuco?
     S10   14881  FUCO?
? s s10 and s9
           14881  S10
              53  S9
     S11      11  S10 AND S9
? ds

Set     Items   Description
S1         71   ELAM-1
S2     117629   LIGAND
S3          4   S1 AND S2
S4          0   S1 AND PD<1994
S5        775   ELAM
S6          0   S5 AND PD<1994
S7         79   S5 AND S2
S8         53   S7 AND PY<1994
S9         53   RD  (unique items)
S10     14881   FUCO?
S11        11   S10 AND S9
? d s11/3,k/1-11
      Display 11/3,K/1
DIALOG(R)File   5:Biosis Previews(R)
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0008943044   BIOSIS NO.: 199396107460
The  ELAM   ligand   fucosyltransferase , ELFT, directs E-selectin binding
  to a secreted scaffold protein: A method to produce and purify large
  quantities of specific carbohydrate structures
AUTHOR: Meier Werner (Reprint); Leone Diane R; Miatkowski Konrad; Lobb Roy;
  Goelz Susan E
AUTHOR ADDRESS: Biogen Inc., 14 Cambridge Cent., Cambridge, MA 02142, USA**
  USA
JOURNAL: Biochemical Journal  294 (1): p25-30  1993
ISSN: 0264-6021
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

The  ELAM   ligand   fucosyltransferase , ELFT, directs E-selectin binding
  to a secreted scaffold protein: A method to produce and...

                                - end of record -
? d s11/3,k/2-3
      Display 11/3,K/2
DIALOG(R)File   5:Biosis Previews(R)
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0008282253 BIOSIS NO.: 199293125144
ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE-1-DEPENDENT ADHESION OF COLON CARCINOMA CELLS TO VASCULAR ENDOTHELIUM IS INHIBITED BY AN ANTIBODY TO LEWIS FUCOSYLATED **TYPE I CARBOHYDRATE CHAIN**
AUTHOR: DEJANA E (Reprint); MARTIN-PADURA I; LAURI D; BERNASCONI S; BANI M R; GAROFALO A; GIAVAZZI R; MAGNANI J; MANTOVANI A; MENARD S
AUTHOR ADDRESS: IST RECERCHE FARMACOLOGICHE "MARIO NEGRI", VIA ERITREA 62, 20157 MILANO, ITALY**ITALY
JOURNAL: Laboratory Investigation 66 (3): p324-330 **1992**
ISSN: 0023-6837
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

...**ADHESION OF COLON CARCINOMA CELLS TO VASCULAR ENDOTHELIUM IS INHIBITED BY AN ANTIBODY TO LEWIS** FUCOSYLATED **TYPE I CARBOHYDRATE CHAIN**
1992

ABSTRACT: Endothelial leukocyte adhesion molecule-1 (**ELAM** -1) has been determined to be the mediator of adhesion of codon carcinoma cells to interleukin-1 (IL-1)-activated endothelial cells. To identify **ELAM** -1 **ligand** in colon carcinoma cells, we have screened a series of 11 monoclonal antibodies directed to...

...and did not inhibit polymorphonuclear adhesion to IL-1-activated endothelial cells. As expected, an **ELAM** -1 monoclonal antibody strongly inhibited IL-1 induced increment of adhesion of HT29, SW948, and...

...used. These cells adhere more efficiently to IL-1 activated endothelial cells but MBr8 and **ELAM** -1 monoclonal antibodies did not effect their adhesion. The effect of MBr8 was also tested...

...of tumor cells with it inhibited this effect. These data suggest that cell adhesion to **ELAM** -1 might be mediated by different, cell type specific, sugar ligands.

- end of record -

? d s11/3,k/3,4,5,6
Display 11/3,K/3
DIALOG(R)File 5:Biosis Previews(R)

0008210467 BIOSIS NO.: 199293053358
THE CUTANEOUS LYMPHOCYTE ANTIGEN IS A SKIN LYMPHOCYTE HOMING RECEPTOR FOR THE VASCULAR LECTIN ENDOTHELIAL CELL-LEUKOCYTE ADHESION MOLECULE 1
AUTHOR: BERG E L (Reprint); YHOSHINO T; ROTT L S; ROBINSON M K; WARNOCK R A ; KISHIMOTO T K; PICKER L J; BUTCHER E C
AUTHOR ADDRESS: LAB EXP CHEM, DEP PATHOL, STANFORD UNIV SCH MED, 300 PASTEUR DR, L-235, STANFORD, CALIF 94305-5324, USA**USA
JOURNAL: Journal of Experimental Medicine 174 (6): p1461-1466 **1991**
ISSN: 0022-1007
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

1991

...ABSTRACT: CLA), binds selectively and avidly to the vascular lectin

endothelial cell-leukocyte adhesion molecule 1 (**ELAM** -1), an interaction that may be involved in targeting of CLA+ T cells to cutaneous...

...Here we present evidence that CLA itself is the (or a) lymphocyte homing receptor for **ELAM** -1. Antigen isolated with anti-CLA monoclonal antibody HECA-452 from human tonsillar lysates avidly binds **ELAM** -1 transfected mouse cells. Anti-CLA antibody blocks T lymphocyte binding to **ELAM** -1 transfectants. HECA-452 and **ELAM** -1 binding to lymphocytes or to isolated tonsillar HECA-452 antigen is abrogated by neutraminidase...

...The dominant form of CLA on T cells is immunologically distinct from the major neutrophil **ELAM** -1 **ligand** , the sialyl Lewis x (sLex) antigen (NeuAc.alpha.2-3Gal.beta.1-4[Fuc.alpha...

...CD15) structures. In combination with the known requirement for terminal NeuAc.alpha.2-3Gal and **fucose** residues attached to N-acetylglucosamine for **ELAM** -1 and HECA-452 binding, this finding suggests that CLA may comprise an additionally sialyated...

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Display 11/3,K/4

0008185338 BIOSIS NO.: 199293028229

CLONING OF A HUMAN ALPHA-1 3 FUCOSYLTRANSFERASE **GENE THAT ENCODES ELFT BUT DOES NOT CONFER** ELAM **-1 RECOGNITION ON CHINESE HAMSTER OVARY CELL TRANSFECTANTS**

AUTHOR: KUMAR R (Reprint); POTVIN B; MULLER W A; STANLEY P
AUTHOR ADDRESS: DEP CELL BIOLOGY, ALBERT EINSTEIN COLLEGE MEDICINE, 1300 MORRIS PARK AVE, BRONX, NY 10456, USA**USA

JOURNAL: Journal of Biological Chemistry 266 (32): p21777-21783 **1991**
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

CLONING OF A HUMAN ALPHA-1 3 FUCOSYLTRANSFERASE **GENE THAT ENCODES ELFT BUT DOES NOT CONFER** ELAM **-1 RECOGNITION ON CHINESE HAMSTER OVARY CELL TRANSFECTANTS**

1991

...ABSTRACT: Chinese hamster ovary (CHO) cells genomic DNA transfectants that expressed a human .alpha.(1,3)- **fucosyltransferase** (.alpha.(1,3)Fuc-T) gene were isolated and shown to possess a common .apprx...

...the .alpha.(2,3)-sialyl-Lex determinant. As expected, these transfectants did not bind to **ELAM** -1 on activated endothelial cells, since sialyl-Lex is a carbohydrate **ligand** recognized by **ELAM** -1. Surprisingly, however, an open reading frame encoded within the .apprx.3.6-kb PstI...

...identical to that of ELFT, an .alpha.(1,3)-Fuc-T previously reported to confer **ELAM** -1 binding on a CHO transfectant (Goelz, S. E., Hession, C., Goff, D., Griffiths, B...

- end of record -

?

...REGISTRY NUMBERS: **FUCOSYLTRANSFERASE**
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: **FUCOSYLTRANSFERASE**

- end of record -

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Display 11/3,K/5
DIALOG(R)File 5:Biosis Previews(R)

0008181938 BIOSIS NO.: 199293024829
STRUCTURAL REQUIREMENTS FOR THE CARBOHYDRATE LIGAND **OF E SELECTIN**
AUTHOR: TYRRELL D (Reprint); JAMES P; RAO N; FOXALL C; ABBAS S; DASGUPTA F; NASHED M; HASEGAWA A; KISO M; ET AL
AUTHOR ADDRESS: C/O BRIAN K BRANDLEY, GLYCOMED INC, 860 ATLANTIC AVE, ALAMEDA, CALIF 94501, USA**USA
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 88 (22): p10372-10376 **1991**
ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

STRUCTURAL REQUIREMENTS FOR THE CARBOHYDRATE LIGAND **OF E SELECTIN**
1991

...ABSTRACT: this adhesion and migration process, including the selectins, a family of carbohydrate-binding proteins. The **ligand** for one of these proteins, E-selectin (LECAM-2, **ELAM** -1) has been described by several groups to contain a polylactosamine structure bearing a terminal sialic acid residue and at least one **fucose** residue. We report here a more detailed investigation into the minimum structural requirements for carbohydrate...

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Display 11/3,K/6
DIALOG(R)File 5:Biosis Previews(R)

0008170324 BIOSIS NO.: 199293013215
THE SELECTION GMP-140 BINDS TO SIALYLATED FUCOSYLATED **LACTOSAMINOGLYCANS ON BOTH MYELOID AND NONMYELOID CELLS**
AUTHOR: ZHOU Q (Reprint); MOORE K L; SMITH D F; VARKI A; MCEVER R P; CUMMINGS R D
AUTHOR ADDRESS: DEP BIOCHEM, UNIV GA, ATHENS, GA 30602, USA**USA
JOURNAL: Journal of Cell Biology 115 (2): p557-564 **1991**
ISSN: 0021-9525
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

THE SELECTION GMP-140 BINDS TO SIALYLATED FUCOSYLATED **LACTOSAMINOGLYCANS ON BOTH MYELOID AND NONMYELOID CELLS**
1991

...ABSTRACT: on the nature of these ligands are contradicatory. We investigated the structural features required for **ligand** interaction

with GMP-140 using purified GMP-140, cells naturally expressing specific oligosaccharides, and cells expressing cloned glycosyltransferases. Like the related selection endothelial leukocyte adhesion molecule-1 (**ELAM** -1), GMP-140 recognizes .alpha.(2-3)sialyated, .alpha.(1-3) **fucosylated** lactosaminoglycans on both myeloid and nonmyeloid cells, including the sequence Neu5Ac.alpha.2-3Gal.beta...

...both myeloid HL-60 cells and CHO cells transfected with an .alpha.-1-3/4 **fucosyltransferase** , GMP-140 binds with significantly higher affinity to HL-60 cells. Thus, the sialyl Lewis...

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? d s11/3,k/7-11
Display 11/3,K/7
DIALOG(R)File 5:Biosis Previews(R)

0007878459 BIOSIS NO.: 199192124230
MOLECULAR CLONING OF A HUMAN FUCOSYLTRANSFERASE **GENE THAT DETERMINES EXPRESSION OF THE LEWIS X AND VIM-2 EPITOPES BUT NOT** ELAM **-1-DEPENDENT CELL ADHESION**
AUTHOR: LOWE J B (Reprint); KUKOWSKA-LATALLO J F; NAIR R P; LARSEN R D; MARKS R M; MACHER B A; KELLY R J; ERNST L K
AUTHOR ADDRESS: HOWARD HUGHES MEDICAL INSTITUTE, MEDICAL SCIENCE RESEARCH BUILD, ROOM 3510, 1150 W MEDICAL CENTER DR, ANN ARBOR, MICH 48109-0650, USA**USA
JOURNAL: Journal of Biological Chemistry 266 (26): p17467-17477 **1991**
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

MOLECULAR CLONING OF A HUMAN FUCOSYLTRANSFERASE **GENE THAT DETERMINES EXPRESSION OF THE LEWIS X AND VIM-2 EPITOPES BUT NOT** ELAM **-1-DEPENDENT CELL ADHESION**
1991

ABSTRACT: We have used the human Lewis blood group **fucosyltransferase** cDNA and cross-hybridization procedures to isolate a human gene that encodes a distinct **fucosyltransferase** . Its DNA sequence predicts a type II transmembrane protein whose sequence is identical to 133 of 231 amino acids at corresponding positions within the catalytic domain of the Lewis **fucosyltransferase** . When expressed by transfection in cultured cell lines, this gene determines expression of a **fucosyltransferase** capable of efficiently utilizing N-acetyllactosamine to form the Lewis x determinant (Gal.beta.1...

...enzyme can determine expression of the .alpha.2.fwdarw.3-sialylated, .alpha.1.fwdarw.3- **fucosylated** structure known as VIM-2, a putative oligosaccharide **ligand** for **ELAM** -1. Cell adhesion assays using VIM-2-positve, sialyl Lewis x-negative transfected Chinese hamster...

...cells indicate that surface expression of the VIM-2 determinant is not sufficient to confer **ELAM** -1-dependent adhesive properties upon the cells. These results demonstrate that substantial structural similarities can...

...that cell surface expression of the VIM-2 determinant is not necessarily sufficient to mediate **ELAM** -1-dependent cell adhesion.
...REGISTRY NUMBERS: **FUCOSYLTRANSFERASE** ;
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: **FUCOSYLTRANSFERASE**

- end of record -

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Display 11/3,K/8
DIALOG(R)File 5:Biosis Previews(R)

0007866831 BIOSIS NO.: 199192112602
A CARBOHYDRATE DOMAIN COMMON TO BOTH SIALYL LE-A AND SIALYL LE-X IS RECOGNIZED BY THE ENDOTHELIAL CELL LEUKOCYTE ADHESION MOLECULE ELAM **-1**
AUTHOR: BERG E L (Reprint); ROBINSON M K; MANSSON O; BUTCHER E C; MAGNANI J L
AUTHOR ADDRESS: BIOCARB INC, 300 PROFESSIONAL DR, GAITHERSBURG, MD 20879, USA**USA
JOURNAL: Journal of Biological Chemistry 266 (23): p14869-14872 **1991**
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

...**LE-A AND SIALYL LE-X IS RECOGNIZED BY THE ENDOTHELIAL CELL LEUKOCYTE ADHESION MOLECULE** ELAM **-1**
1991

ABSTRACT: The specificity of endothelial cell leukocyte adhesion molecule-1, **ELAM** -1, for binding to a panel of carbohydrate structures was determined by a sensitive cell binding assay with immobilized synthetic glycoconjugates. **ELAM** -1 cDNA transfectants were found to bind Sialyl Lea (sialylated lacto-N- **fucopentaose** II) or sialylated Lewis a antigen (NeuAc.alpha.2-3Gal.beta.1-3(Fuc.alpha.1-4)GlcNAc), as well as or slightly better than Sialyl Lex (sialylated lacto-N- **fucopentaose** III) or sialylated Lewis X antigen (NeuAc.alpha.2-3Gal.beta.1-4(Fuc.alpha.1-3)-GlcNAc). A monoclonal antibody, HECA-452, which has been identified recently as recognizing **ELAM** -1 ligands in addition to those containing Sialyl Lex, was also found to bind both...

...and reducing termini. As Lea and Lex show much weaker reactivity, the determinants recognized by **ELAM** -1 and HECA-452 probably involve neuraminic acid and **fucose** residues which on one face of both Sialyl Lex and Sialyl Lea can be similarly positioned. The finding that Sialyl Lea is a potent **ligand** for **ELAM** -1 is important, as circulating Sialyl Lea and Sialyl Lex containing mucins which are elevated in the serum of many cancer patients may block leukocyte interactions with **ELAM** -1 and may contribute to the pathological immunodepression observed in these patients.

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Display 11/3,K/9
DIALOG(R)File 5:Biosis Previews(R)

0007713218 BIOSIS NO.: 199191096109
CARBOHYDRATE LIGANDS FOR ENDOTHELIAL-LEUKOCYTE ADHESION MOLECULE 1
AUTHOR: TIEMEYER M (Reprint); SWIEDLER S J; ISHIHARA M; MORELAND M; SCHWEINGRUBER H; HIRTZER P; BRANDLEY B K
AUTHOR ADDRESS: GLYCOMED INC, 860 ATLANTIC AVENUE, ALAMEDA, CALIF 94501, USA**USA
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 88 (4): p1138-1142 **1991**
ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

1991

...ABSTRACT: family of putative carbohydrate-binding proteins. We report here the identification of an endogenous carbohydrate **ligand** for one of these receptors, endothelial-leukocyte adhesion molecule 1 (**ELAM** -1). Radiolabeled COS cells transfected with a plasmid containing the cDNA for **ELAM** -1 were used as probes to screen glycolipids extracted from human leukocytes. COS cells transfected...

...analysis, and fast atom bombardment mass spectrometry of the glycolipids indicate that the ligands for **ELAM** -1 are terminally sialylated lactosylceramides with a variable number of N-acetyllactosamine repeats and at least one **fucosylated** N-acetylglucosamine residue.

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Display 11/3,K/10
DIALOG(R)File 5:Biosis Previews(R)

0007678316 BIOSIS NO.: 199191061207
ELFT A GENE THAT DIRECTS THE EXPRESSION OF AN ELAM **-1** LIGAND
AUTHOR: GOELZ S E (Reprint); HESSION C; GOFF D; GRIFFITHS B; TIZARD R; NEWMAN B; CHI-ROSSO G; LOBB R
AUTHOR ADDRESS: BIOGEN, INC, 14 CAMBRIDGE CENT, CAMBRIDGE, MASS 02142, USA **USA
JOURNAL: Cell 63 (6): p1349-1356 **1990**
ISSN: 0092-8674
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ELFT A GENE THAT DIRECTS THE EXPRESSION OF AN ELAM **-1** LIGAND
1990

ABSTRACT: The LECCAMs are a family of cell adhesion molecules implicated in certain inflammatory processes. **ELAM** -1, a LECCAM found on the surface of activated endothelial cells, can mediate adhesion of neutrophils, monocytes, and certain cell lines to endothelial cells in vitro. No **ligand** for any LECCAM has yet been fully characterized. Here we report the cloning of a cDNA, ELFT (**ELAM** -1 **ligand** **fucosyltransferase**),

that can confer **ELAM** -1 binding activity when transfected into nonbinding cell lines. ELFT encodes a 46 kd protein that has .alpha.(1,3) **fucosyltransferase** activity, suggesting that a **fucosylated** carbohydrate structure is an essential component of the **ELAM** -1 **ligand** . Furthermore, ELFT is expressed specifically in cell types that bind to **ELAM** -1, suggesting that this enzyme is an important regulator of inflammatory events in vivo.

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Display 11/3,K/11

0007378136 BIOSIS NO.: 199140021027

IDENTIFICATION AND STRUCTURAL DETERMINATION OF AN ENDOGENOUS CARBOHYDRATE LIGAND FOR ELAM -1

AUTHOR: TIEMEYER M (Reprint); SWIEDLER S; ISHIHARA M; MORELAND M; SCHWEINGRUBER H; HIRTZER P; BRANDLEY B
AUTHOR ADDRESS: GLYCOMED INC, ALAMEDA, CALIF 94501, USA**USA

JOURNAL: Journal of Cell Biology 111 (5 PART 2): p159A **1990**
CONFERENCE/MEETING: THIRTIETH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR CELL BIOLOGY, SAN DIEGO, CALIFORNIA, USA, DECEMBER 9-13, 1990. J CELL BIOL.
ISSN: 0021-9525
DOCUMENT TYPE: Meeting
RECORD TYPE: Citation
LANGUAGE: ENGLISH

IDENTIFICATION AND STRUCTURAL DETERMINATION OF AN ENDOGENOUS CARBOHYDRATE LIGAND FOR ELAM -1
1990
...REGISTRY NUMBERS: **FUCOSE** ; ...
... **FUCOSE**
DESCRIPTORS: ABSTRACT HUMAN ENDOTHELIAL CELL LEUKOCYTE ADHESION MOLECULE-1 N ACETYLNEURAMINIC ACID **FUCOSE** NEUTROPHIL ADHESION INFLAMMATION
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... **FUCOSE** ; ...

... **FUCOSE**

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$8.20 4 Type(s) in Format 4
$1.76 11 Type(s) in Format 95 (KWIC)
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$34.26 Estimated cost File5
$2.13 TELNET
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$37.01 Estimated total session cost 4.291 DialUnits

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